Date⇒ 02-02-2021
Module⇒ Backend
Lecture By⇒ Akash Handa
Subject ⇒ Crud App

IN PREVIOUS LECTURE **(QUICK RECAP) Date-01/02/2021**	In Today's Lecture (Overview)

Update command in mongodb
 	
Delete command in mongodb
 	
Upsert in Mongodb
 	
Crud Operation in Mongodb
    Create Operations
    Read Operations
    Update Operations
    Delete Operations
	Creating simple Crud App using Nodejs And Mongodb

Creating simple Crud App using Nodejs And Mongodb

App.js

```javascript
const express = require('express');
const app = express();
const port = process.env.PORT || 9700;
const mongo = require('mongodb');
const MongoClient = mongo.MongoClient
const bodyParser = require('body-parser');
const cors = require('cors');
const mongourl = `mongodb://localhost:27017`;
let dbobj;
let col_name="users";

//middleware
//cross origin resource sharing
app.use(cors())

//parse data for post call
app.use(bodyParser.urlencoded({extended:true}))
app.use(bodyParser.json())
```

```javascript
//ejs
app.use(express.static(__dirname+'/public'));
app.set('views','./src/views');
app.set('view engine','ejs');

//health Check
app.get('/health',(req,res) => {
    res.status(200).send("Health Ok")
})

//load home page
app.get('/',(req,res) => {
    dbobj.collection(col_name).find({isActive:true}).toArray((err,result)
=> {
        if(err) throw err;
        res.render('index',{data:result})
    })
})

app.get('/new',(req,res) => {
    res.render('admin')
})

//postUser
app.post('/adduser',(req,res)=>{
    const data = {
        "name": req.body.name,
        "city": req.body.city,
        "phone": req.body.phone,
        "isActive": req.body.isActive?req.body.isActive:true,
        "role": req.body.role?req.body.role:'User',
        "email": req.body.email
    }
    dbobj.collection(col_name).insert(data,(err,result) => {
        if(err) throw err;
        //res.status(200).send("Data Added")
        res.redirect('/')
    });
});
```

```javascript
//getUser
app.get('/users',(req,res) => {
    var query = {}
    if(req.query.city && req.query.role){
        query={city:req.query.city,role:req.query.role,isActive:true}
    }
    else if(req.query.city){
        query={city:req.query.city,isActive:true}
    }else if(req.query.role){
        query={role:req.query.role,isActive:true}
    }else{
        query={isActive:true}
    }
    dbobj.collection(col_name).find(query).toArray((err,result) => {
        if(err) throw err;
        res.send(result)
    })
})

//UserDetails
app.get('/user/:id',(req,res) => {
    var id = mongo.ObjectID(req.params.id)
    var query = {}
    query={_id:id}
    dbobj.collection(col_name).findOne(query,(err,result) => {
        if(err) throw err;
        res.send(result)
    })
})

//updateUser
app.put('/editUser',(req,res) => {
    let Id = req.body._id;
    dbobj.collection(col_name).update(
        {_id:mongo.ObjectID(Id)},
        {
            $set:{
                name:req.body.name,
                email:req.body.email,
```

```javascript
                    city: req.body.city,
                    phone: req.body.phone,
                    isActive:req.body.isActive?true:false,
                    role: req.body.role,
                }
        },(err,result) => {
            if(err) throw err;
            res.send("Data Updated")
        }
    )
})

//hardDeleteUser
app.delete('/deleteUser',(req,res) => {
    let Id = mongo.ObjectID(req.body._id);
    dbobj.collection(col_name).remove({_id:Id},(err,result) => {
        if(err) throw err;
        res.send("Data Deleted")
    })
});

//deactivate User(soft Delete)
app.put('/deactivateUser',(req,res)=>{
    let Id = mongo.ObjectID(req.body._id);
    dbobj.collection(col_name).update(
        {_id:Id},
        {
            $set:{
                isActive:false
            }
        },(err,result)=> {
            if(err) throw err;
            res.send("User Deactivated")
        }
    )
})

//Activate User(soft Delete)
app.put('/activateUser',(req,res)=>{
    let Id = mongo.ObjectID(req.body._id);
```

```javascript
        dbobj.collection(col_name).update(
            {_id:Id},
            {
                $set:{
                    isActive:true
                }
            },(err,result)=> {
                if(err) throw err;
                res.send("User Activated")
            }
        )
})

MongoClient.connect(mongourl,(err,connection) => {
    if(err) console.log(err);
    dbobj = connection.db('aryabhat');
    app.listen(port,(err) => {
        console.log(`Server is running on port ${port}`)
    })
})
```

Index.ejs

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Add new Data</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js">
</script>
```

```html
<!--DataTable-->
<link rel="stylesheet" type="text/css"
href="https://cdn.datatables.net/1.10.16/css/jquery.dataTables.css">
<script type="text/javascript" charset="utf8"
src="https://cdn.datatables.net/1.10.16/js/jquery.dataTables.js"></script>
</head>
<body>


    <div class="container">
        <br>
            <nav class="navbar navbar-expand-md bg-dark navbar-dark
fixed-top">
            <!-- Brand -->
            <a class="navbar-brand" href="#">Developer Funnel</a>

            <!-- Toggler/collapsibe Button -->
            <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#collapsibleNavbar">
                <span class="navbar-toggler-icon"></span>
            </button>

            <!-- Navbar links -->
            <div class="collapse navbar-collapse" id="collapsibleNavbar">
                <ul class="navbar-nav">
                <li class="nav-item">
                    <a class="nav-link" href="/">Home</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="/new">Add new</a>
                </li>
                </ul>
            </div>
            </nav>
            <br/><br/>
            <div class="table-responsive">
                <table class="table table-hover table-striped"
id="myTable">
                    <thead class="thead-dark">
                        <tr>
```

```html
                    <th>Name</th>
                    <th>City</th>
                    <th>Phone</th>
                    <th>Email</th>
                    <th>Role</th>
                    <th>Action</th>
                </tr>
            </thead>
            <tbody>
                <%for(i=0;i<data.length;i++){%>
                    <tr>
                        <td><%=data[i].name%></td>
                        <td><%=data[i].city%></td>
                        <td><%=data[i].phone%></td>
                        <td><%=data[i].email%></td>
                        <td><%=data[i].role%></td>
                        <td>
                            <button type="button" class="edit btn
btn-warning"
                            data-toggle="modal"
data-target="#myModal"
                            id="<%=data[i]._id%>">Edit</button>
                            <button type="button" class="btn
btn-danger" id="<%=data[i]._id%>">Delete</button>
                        </td>
                    </tr>
                <%}%>
            </tbody>
        </table>
        <div class="modal" id="myModal">
            <div class="modal-dialog">
                <div class="modal-content">

                    <!-- Modal Header -->
                    <div class="modal-header">
                    <h4 class="modal-title">Modal Heading</h4>
                    <button type="button" class="close"
data-dismiss="modal">&times;</button>
                    </div>
```

```html
                              <!-- Modal body -->
                          <div class="modal-body">
                              <form action="/editUser" method="POST"
id="update_user">
                                  <input type="text" readonly
class="form-control" id="update_id"  name="_id">
                                  <div class="form-group">
                                      <label for="name">Name:</label>
                                      <input type="text"
class="form-control" id="update_name" placeholder="Enter First name"
name="name" required>
                                  </div>
                                  <div class="form-group">
                                      <label for="city">City:</label>
                                      <input type="text"
class="form-control" id="update_city" placeholder="Enter City"
name="city">
                                  </div>
                                  <div class="form-group">
                                      <label for="phone">Phone:</label>
                                      <input type="phone"
class="form-control" id="update_phone" placeholder="Enter phone"
name="phone">
                                  </div>
                                  <div class="form-group">
                                      <label for="email">Email:</label>
                                      <input type="email"
class="form-control" id="update_email" placeholder="Enter Email"
name="email">
                                  </div>
                                  <div class="form-group">
                                      <label for="role">Role:</label>
                                      <input type="role"
class="form-control" id="update_role"  name="role" readonly>
                                  </div>
                                  <div class="form-group">
                                      <label
for="role">IsActive:</label>
                                      <input type="role"
class="form-control" id="update_active"  name="isActive" readonly>
```

```
                                                </div>

                                    </form>

                            </div>

                            <!-- Modal footer -->
                            <div class="modal-footer">
                                    <button type="button" class="btn
btn-danger" data-dismiss="modal">Close</button>
                                    <button type="submit"
id="update_table" class="btn btn-primary">update</button>
                            </div>

                        </div>
                    </div>
                </div>
        </div>
    </div>
    <script>
        $(document).ready(function(){
            $('#myTable').DataTable()
        })
        $('.edit').click(function(){
            id=this.id;
            console.log(id)
            $.ajax({
                type:'get',
                url:`/user/${id}`,
                success:function(data){
                    //console.log(data)
                    $("#update_id").attr("value",data._id);
                    $("#update_name").attr("value", data.name);
                    $("#update_city").attr("value", data.city);
                    $("#update_phone").attr("value", data.phone);
                    $("#update_role").attr("value", data.role);
                    $("#update_email").attr("value", data.email);
                    $("#update_active").attr("value", data.isActive);
                }
            })
```

```
        })
        $(function(){
            $('#update_table').on('click',function(){
                var data = $('#update_user').serialize()
                console.log(data)
                $.ajax({
                    url:'/editUser',
                    type:'PUT',
                    data:data,
                    success:function(data){
                        console.log("Success")
                        window.location.reload()
                    },
                    error:function(){
                        alert("Invalid Action")
                    }
                })
            })
        })
    </script>
</body>
</html>
```